

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **DNOC**

PO Box 372
Hays KS 67601

ATTN: Ron Nelson

36 14 21 Trego KS

Verda # 1-36

Start Date: 2010.02.01 @ 06:14:40

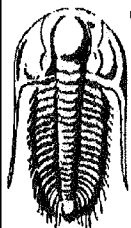
End Date: 2010.02.01 @ 13:00:10

Job Ticket #: 36847 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



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DST#: 1

Test Start: 2010.02.01 @ 06:14:40

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:28:10

Time Test Ended: 13:00:10

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3789.00 ft (KB) To 3825.00 ft (KB) (TVD)**

Total Depth: 3825.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2104.00 ft (KB)

2096.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 26.28 psig @ 3790.00 ft (KB)

Start Date: 2010.02.01

End Date: 2010.02.01

Start Time: 06:14:41

End Time: 13:00:10

Capacity: 8000.00 psig

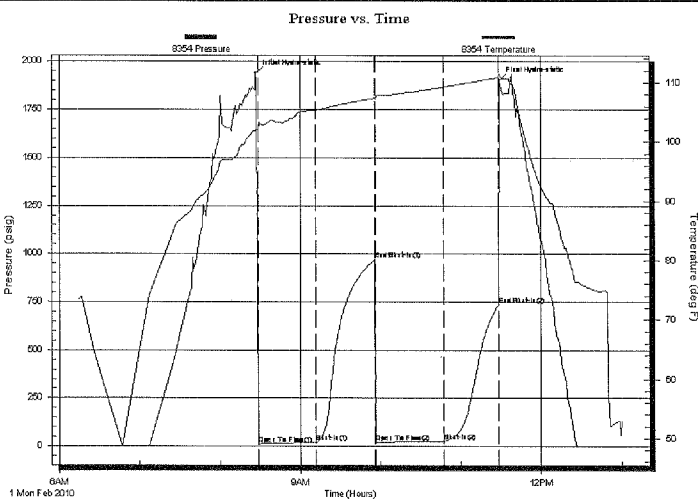
Last Calib.: 2010.02.01

Time On Btm: 2010.02.01 @ 08:26:40

Time Off Btm: 2010.02.01 @ 11:29:10

TEST COMMENT: IF-Weak building to 1/2"

FF-Weak died in 25 min



PRESSURE SUMMARY

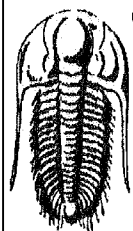
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.79	102.06	Initial Hydro-static
2	12.55	101.93	Open To Flow (1)
45	19.78	105.32	Shut-In (1)
90	971.85	107.38	End Shut-In (1)
90	22.30	107.25	Open To Flow (2)
141	26.28	109.27	Shut-In (2)
182	736.52	110.81	End Shut-In (2)
183	1902.67	111.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
19.00	Drig Mud	0.09
1.00	CO	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TOOL DIAGRAM

DNOC

Verda # 1-36

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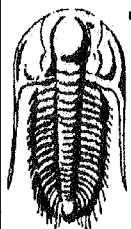
Test Start: 2010.02.01 @ 06:14:40

Tool Information

Drill Pipe:	Length: 3753.00 ft	Diameter: 3.80 inches	Volume: 52.64 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 52.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3789.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3770.00	
Shut In Tool	5.00			3775.00	
Hydraulic tool	5.00			3780.00	
Packer	5.00			3785.00	20.00 Bottom Of Top Packer
Packer	4.00			3789.00	
Stubb	1.00			3790.00	
Recorder	0.00	8354	Inside	3790.00	
Recorder	0.00	8520	Outside	3790.00	
Perforations	32.00			3822.00	
Bullnose	3.00			3825.00	36.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



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FLUID SUMMARY

DNOO

Verda # 1-36

PO Box 372
Hays KS 67601

36 14 21 Trego KS

Job Ticket: 36847

DST#: 1

ATTN: Ron Nelson

Test Start: 2010.02.01 @ 06:14:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
19.00	Drig Mud	0.093
1.00	CO	0.005

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

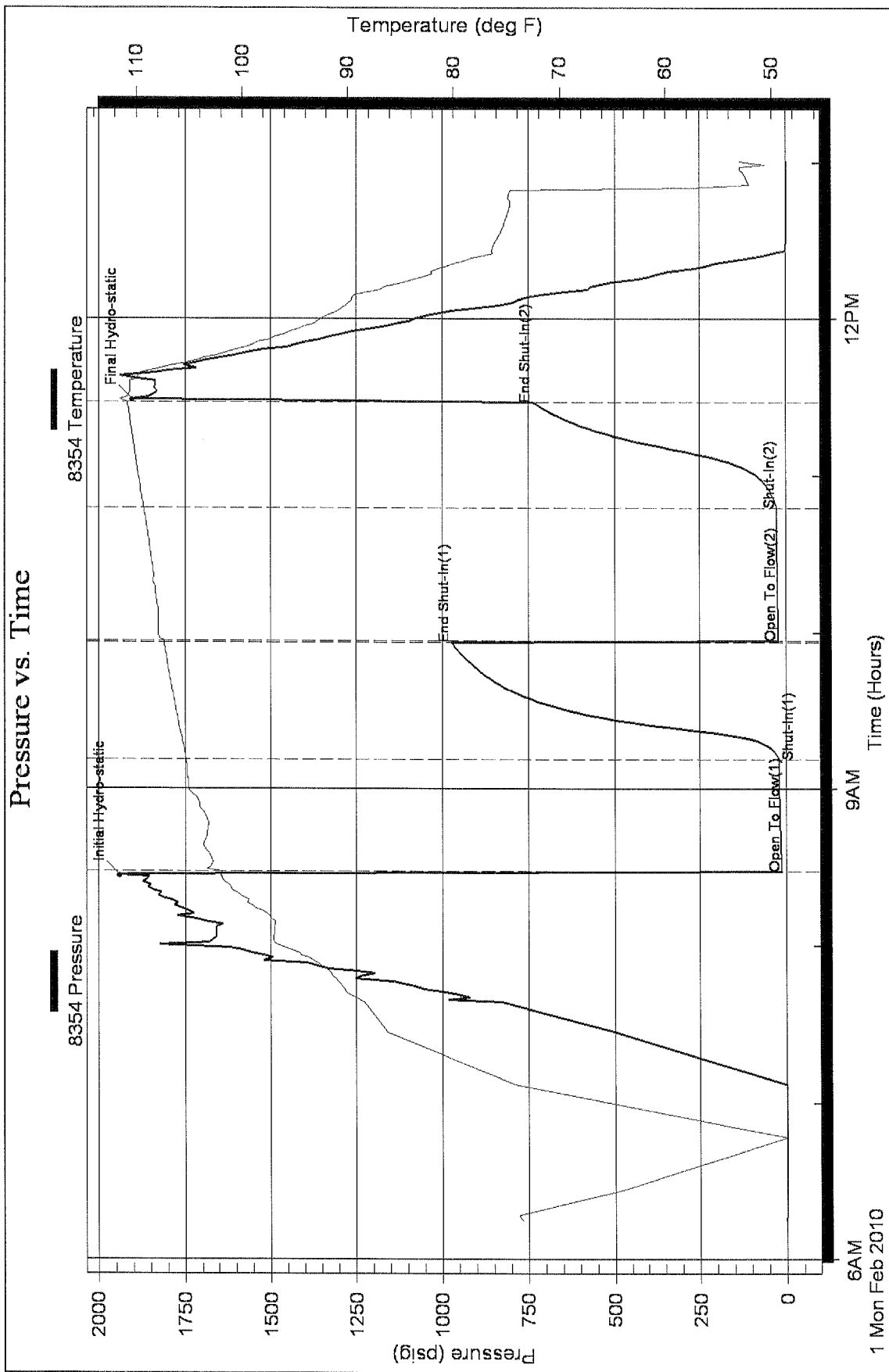
Serial #:

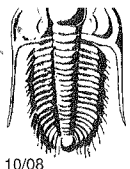
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 01 2010

Test Ticket

NO. 36847

Well Name & No. Verda #1-36 BY: _____ Test No. 1 Date 2-1-10
Company DWOC Elevation 2104 KB 2096 GL _____
Address Box 372 Hays Ks. 67601
Co. Rep / Geo. Marc Downing Rig Discovery #2
Location: Sec. 36 Twp. 14 Rge. 21 Co. Trego State Ks

Interval Tested 3789 — 3825 Zone Tested Marmaton
Anchor Length 36 Drill Pipe Run 3753 Mud Wt. 8.9
Top Packer Depth 3784 Drill Collars Run 30 Vis 48
Bottom Packer Depth 3789 Wt. Pipe Run — WL 9.6
Total Depth 3825 Chlorides 3000 ppm System LCM 1/2#
Blow Description I.F. Weak - building to 1/2"

F.F. Weak - died in 25 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Co</u>				
<u>19</u>	<u>Drilg Mud</u>				

Rec Total 20 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1937
(B) First Initial Flow 12
(C) First Final Flow 19
(D) Initial Shut-In 971
(E) Second Initial Flow 22
(F) Second Final Flow 26
(G) Final Shut-In 7.36
(H) Final Hydrostatic 1902

☐ Test 1050
☐ Jars _____
☐ Safety Joint _____
☐ Circ Sub _____
☐ Hourly Standby _____
☐ Mileage 48 RT
☐ Sampler _____
☐ Straddle _____

T-On Location 05:00
T-Started 06:14
T-Open 08:25
T-Pulled 11:25
T-Out 13:00
Comments _____

Initial Open 45
Initial Shut-In 45
Final Flow 45
Final Shut-In 45

☐ Shale Packer _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
Sub Total 0
Total 1098

Sub Total 1098

Approved By _____

Our Representative Don Bangle

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